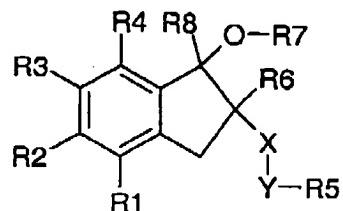


AMENDMENTS TO THE CLAIMS

This listing of claims will replace all the prior versions and listings of claims in the application.

Claim 1. (Currently amended). A compound of the formula I,



I

in which

R1, R2, R3, R4, independently of one another, are H, F, Cl, Br, I, C [O] N, N<sub>3</sub>, NO<sub>2</sub>, OH, O(C<sub>1</sub>-C<sub>8</sub>)-alkyl, O(C<sub>3</sub>-C<sub>8</sub>)-cycloalkyl, O-CH<sub>2</sub>-phenyl, O-phenyl, O-CO-(C<sub>1</sub>-C<sub>8</sub>)-alkyl, O-CO-(C<sub>3</sub>-C<sub>8</sub>)-cycloalkyl, where in the alkyl radicals up to seven hydrogen atoms may be replaced by fluorine; S(O)<sub>0-2</sub>(C<sub>1</sub>-C<sub>8</sub>)-alkyl, S(O)<sub>0-2</sub>(C<sub>3</sub>-C<sub>8</sub>)-cycloalkyl, where in the alkyl radicals up to seven hydrogen atoms may be replaced by fluorine; NH<sub>2</sub>, NH-(C<sub>1</sub>-C<sub>8</sub>)-alkyl, NH-(C<sub>3</sub>-C<sub>8</sub>)-cycloalkyl, N[(C<sub>1</sub>-C<sub>8</sub>)-alkyl]<sub>2</sub>, N[(C<sub>3</sub>-C<sub>8</sub>)-cycloalkyl]<sub>2</sub>, NH-CO-(C<sub>1</sub>-C<sub>8</sub>)-alkyl, NH-CO-(C<sub>3</sub>-C<sub>8</sub>)-cycloalkyl; SO<sub>3</sub>H, SO<sub>2</sub>-NH<sub>2</sub>, SO<sub>2</sub>-NH-(C<sub>1</sub>-C<sub>8</sub>)-alkyl, SO<sub>2</sub>-NH-(C<sub>3</sub>-C<sub>8</sub>)-cycloalkyl; SO<sub>2</sub>-(C<sub>1</sub>-C<sub>6</sub>)-alkyl; NH-SO<sub>2</sub>-NH<sub>2</sub>, NH-SO<sub>2</sub>-(C<sub>1</sub>-C<sub>8</sub>)-alkyl, NH-SO<sub>2</sub>-(C<sub>3</sub>-C<sub>8</sub>)-cycloalkyl; O-CH<sub>2</sub>-COOH, O-CH<sub>2</sub>-CO-O(C<sub>1</sub>-C<sub>8</sub>)-alkyl, COOH, COO(C<sub>1</sub>-C<sub>8</sub>)-alkyl, CO-O-(C<sub>3</sub>-C<sub>8</sub>)-cycloalkyl, CO-NH<sub>2</sub>, CO-NH(C<sub>1</sub>-C<sub>8</sub>)-alkyl, CON[(C<sub>1</sub>-C<sub>8</sub>)-alkyl]<sub>2</sub>; (C<sub>1</sub>-C<sub>8</sub>)-alkyl, (C<sub>3</sub>-C<sub>8</sub>)cycloalkyl, (C<sub>2</sub>-C<sub>8</sub>)-alkenyl, or (C<sub>2</sub>-C<sub>8</sub>)-alkynyl, where in the alkyl, alkenyl, and alkynyl groups one to seven hydrogen atoms may be replaced by fluorine;

or one hydrogen may be replaced by OH, OC(O)CH<sub>3</sub>, O-CH<sub>2</sub>-Ph, NH<sub>2</sub>, NH-CO-CH<sub>3</sub> or N(COOCH<sub>2</sub>Ph)<sub>2</sub>  
 phenyl, 1- or 2-naphthyl,  
 where the aryl radical may be substituted up to two times by  
 F, Cl, Br, CN,  
 OH, (C<sub>1</sub>-C<sub>4</sub>)-alkyl, CF<sub>3</sub>, O-(C<sub>1</sub>-C<sub>4</sub>)-alkyl, S(O)<sub>0-2</sub>(C<sub>1</sub>-C<sub>6</sub>)-alkyl, NH<sub>2</sub>, NH-SO<sub>2</sub>-(C<sub>1</sub>-C<sub>4</sub>)-alkyl; COOH, CO-O-(C<sub>1</sub>-C<sub>4</sub>)-alkyl, CO-NH<sub>2</sub> and where in the alkyl groups one to seven hydrogen atoms may be replaced by fluorine;

X is SO;

Y is (CH<sub>2</sub>)<sub>p</sub>, where p maybe 0,1, 2 or 3;

R5 is (C<sub>1</sub>-C<sub>18</sub>)-alkyl, (C<sub>3</sub>-C<sub>4</sub>)-cycloalkyl, (C<sub>6</sub>-C<sub>8</sub>)-cycloalkyl,  
 where in the alkyl groups up to seven hydrogen atoms may be replaced  
 by fluorine;  
 (CH<sub>2</sub>)<sub>1-6</sub>-COOH, (CH<sub>2</sub>)<sub>1-6</sub>-COO-(C<sub>1</sub>-C<sub>6</sub>)-alkyl, (CH<sub>2</sub>)<sub>1-6</sub>-CONH<sub>2</sub>  
 CH<sub>2</sub>-CH(NHR10)-COR11, where R10 maybe H or C(O)-(C<sub>1</sub>-C<sub>6</sub>)-alkyl and R11  
 may be OH, O-(C<sub>1</sub>-C<sub>6</sub>)-alkyl or NH<sub>2</sub>;

phenyl, 1- or 2-naphthyl, or biphenyl, where the rings or ring systems are in each case substituted up to three times by

F, Cl, Br, I, CN, OH, O(C<sub>1</sub>-C<sub>8</sub>)-alkyl, O(C<sub>3</sub>-C<sub>8</sub>)-cycloalkyl, O-CO-(C<sub>1</sub>-C<sub>8</sub>)-alkyl,  
 O-CO-(C<sub>3</sub>-C<sub>8</sub>)-cycloalkyl, S(O)<sub>0-2</sub>(C<sub>1</sub>-C<sub>8</sub>)-alkyl, S(O)<sub>0-2</sub>(C<sub>3</sub>-C<sub>8</sub>)-cycloalkyl, NH<sub>2</sub>,  
 NH-(C<sub>1</sub>-C<sub>8</sub>)-alkyl, NH-(C<sub>3</sub>-C<sub>8</sub>)-cycloalkyl, N[(C<sub>1</sub>-C<sub>8</sub>)-alkyl]<sub>2</sub>, N[(C<sub>3</sub>-C<sub>8</sub>)-  
 cycloalkyl]<sub>2</sub>, NH-CO-(C<sub>1</sub>-C<sub>8</sub>)-alkyl, NH-CO-(C<sub>3</sub>-C<sub>8</sub>)-cycloalkyl, SO<sub>3</sub>H; SO<sub>2</sub>-NH<sub>2</sub>,  
 SO<sub>2</sub>-NH-(C<sub>1</sub>-C<sub>8</sub>)-alkyl, SO<sub>2</sub>-NH-(C<sub>3</sub>-C<sub>8</sub>)-cycloalkyl, NH-SO<sub>2</sub>-NH<sub>2</sub>; NH-SO<sub>2</sub>-(C<sub>1</sub>-  
 C<sub>8</sub>)-alkyl, NH-SO<sub>2</sub>-(C<sub>3</sub>-C<sub>8</sub>)-cycloalkyl; O-CH<sub>2</sub>-COOH, O-CH<sub>2</sub>-CO-O(C<sub>1</sub>-C<sub>8</sub>)-  
 alkyl, COOH, CO-O(C<sub>1</sub>-C<sub>8</sub>)-alkyl, CO-O-(C<sub>3</sub>-C<sub>8</sub>)-cycloalkyl, CO-NH<sub>2</sub>, CO-  
 NH(C<sub>1</sub>-C<sub>8</sub>)-alkyl, CO-N[(C<sub>1</sub>-C<sub>8</sub>)-alkyl]<sub>2</sub>;

(C<sub>1</sub>-C<sub>8</sub>)-alkyl, (C<sub>3</sub>-C<sub>8</sub>)-cycloalkyl, where in the alkyl groups in each case  
 one to seven hydrogen atoms may be replaced by fluorine;

- R6 is  $(CH_2)_{0-6}$ -R9,  $(CH_2)_{0-6}$ -COOH,  $(CH_2)_{0-6}$ COO-(C<sub>1</sub>-C<sub>6</sub>)-alkyl,  $(CH_2)_{0-6}$ -CONH<sub>2</sub>,  $(CH_2)_{0-6}$ -CH(NHR15)-COR16, F, Cl, Br, CN, (C<sub>1</sub>-C<sub>18</sub>)-alkyl, (C<sub>3</sub>-C<sub>4</sub>)-cycloalkyl, (C<sub>6</sub>-C<sub>8</sub>)-cycloalkyl, where in the alkyl radicals or cycloalkyl radicals up to seven hydrogen atoms may be replaced by fluorine;
- R15 is H, C(O)-(C<sub>1</sub>-C<sub>6</sub>)-alkyl;
- R16 is OH, O-(C<sub>1</sub>-C<sub>6</sub>)-alkyl, NH<sub>2</sub>
- R7 is  $(CH_2)_{0-4}$ -R12, H, (C<sub>1</sub>-C<sub>12</sub>)-alkyl, (C<sub>3</sub>-C<sub>4</sub>)-cycloalkyl, (C<sub>6</sub>-C<sub>8</sub>)-cycloalkyl, COO(C<sub>1</sub>-C<sub>6</sub>)-alkyl, COO(C<sub>3</sub>-C<sub>8</sub>)-cycloalkyl, where in the alkyl radicals or cycloalkyl radicals up to seven hydrogen atoms may be replaced by fluorine;
- R8 is  $(CH_2)_{0-4}$ -R14, (C<sub>1</sub>-C<sub>12</sub>)-alkyl, (C<sub>3</sub>-C<sub>4</sub>)-cycloalkyl, (C<sub>6</sub>-C<sub>8</sub>)-cycloalkyl, where in the alkyl or cycloalkyl radicals up to seven hydrogen atoms may be replaced by fluorine atoms;
- R9, R12, R14 independently of one another are phenyl, 1- or 2-naphthyl, or biphenyl, where the rings or ring systems are in each case substituted up to three times by F, Cl, Br, I, CN, OH, O(C<sub>1</sub>-C<sub>8</sub>)-alkyl, O(C<sub>3</sub>-C<sub>8</sub>)-cycloalkyl, O-CO-(C<sub>1</sub>-C<sub>8</sub>)-alkyl, O-CO-(C<sub>3</sub>-C<sub>8</sub>)-cycloalkyl, S(O)<sub>0-2</sub>(C<sub>1</sub>-C<sub>8</sub>)-alkyl, S(O)<sub>0-2</sub>(C<sub>3</sub>-C<sub>8</sub>)-cycloalkyl, NH<sub>2</sub>, NH-(C<sub>1</sub>-C<sub>8</sub>)-alkyl, NH-(C<sub>3</sub>-C<sub>8</sub>)-cycloalkyl, N[(C<sub>1</sub>-C<sub>8</sub>)-alkyl]<sub>2</sub>, N[(C<sub>3</sub>-C<sub>8</sub>)-cycloalkyl]<sub>2</sub>, NH-CO-(C<sub>1</sub>-C<sub>8</sub>)-alkyl, NH-CO-(C<sub>3</sub>-C<sub>8</sub>)-cycloalkyl, SO<sub>3</sub>H; SO<sub>2</sub>-NH<sub>2</sub>, SO<sub>2</sub>-NH-(C<sub>1</sub>-C<sub>8</sub>)-alkyl, SO<sub>2</sub>-NH-(C<sub>3</sub>-C<sub>8</sub>)-cycloalkyl, NH-SO<sub>2</sub>-NH<sub>2</sub>; NH-SO<sub>2</sub>-(C<sub>1</sub>-C<sub>8</sub>)-alkyl, NH-SO<sub>2</sub>-(C<sub>3</sub>-C<sub>8</sub>)-cycloalkyl; O-CH<sub>2</sub>-COOH, O-CH<sub>2</sub>-CO-O(C<sub>1</sub>-C<sub>8</sub>)-alkyl, COOH, CO-O(C<sub>1</sub>-C<sub>8</sub>)-alkyl, CO-O-(C<sub>3</sub>-C<sub>8</sub>)-cycloalkyl, CO-NH<sub>2</sub>, CO-NH(C<sub>1</sub>-C<sub>8</sub>)-alkyl, CO-N[(C<sub>1</sub>-C<sub>8</sub>)-alkyl]<sub>2</sub>; (C<sub>1</sub>-C<sub>8</sub>)-alkyl, (C<sub>3</sub>-C<sub>8</sub>)-cycloalkyl, where in the alkyl groups in each case one to seven hydrogen atoms may be replaced by fluorine;

and its physiologically acceptable salts.

**Claim 2.** (Previously presented). A compound of the formula I as claimed in claim 1 in which

R1, R2, R3, R4, independently of one another, are H, F, Cl, Br, N3, O(C<sub>1</sub>-C<sub>8</sub>)-alkyl, or (C<sub>1</sub>-C<sub>8</sub>)-alkyl and where in the alkyl groups one to seven hydrogen atoms may be replaced by fluorine; where in each case at least one of the radicals R1, R2, R3 and R4 is different from hydrogen;

X is SO;

Y is (CH<sub>2</sub>)<sub>p</sub>, where p may be 0, 1, 2, or 3;

R5 is (C<sub>1</sub>-C<sub>18</sub>)-alkyl, (C<sub>3</sub>-C<sub>4</sub>)-cycloalkyl, (C<sub>6</sub>-C<sub>8</sub>)-cycloalkyl, where in the alkyl groups up to seven hydrogen atoms may be replaced by fluorine;

(CH<sub>2</sub>)<sub>1-6</sub>-COOH, (CH<sub>2</sub>)<sub>1-6</sub>-COO-(C<sub>1</sub>-C<sub>6</sub>)-alkyl, (CH<sub>2</sub>)<sub>1-6</sub>-CONH<sub>2</sub>

CH<sub>2</sub>-CH(NHR10)-COR11, where R10 may be H or C(O)-(C<sub>1</sub>-C<sub>6</sub>)-alkyl and R11 may be OH, O-(C<sub>1</sub>-C<sub>6</sub>)-alkyl or NH<sub>2</sub>;

phenyl, 1- or 2-naphthyl, or biphenyl, where the rings or ring systems are in each case substituted up to three times by

F, Cl, Br, I, CN, OH, O(C<sub>1</sub>-C<sub>8</sub>)-alkyl, O(C<sub>3</sub>-C<sub>8</sub>)-cycloalkyl, O-CO-(C<sub>1</sub>-C<sub>8</sub>)-alkyl, O-CO-(C<sub>3</sub>-C<sub>8</sub>)-cycloalkyl, S(O)<sub>0-2</sub>(C<sub>1</sub>-C<sub>8</sub>)-alkyl, S(O)<sub>0-2</sub>(C<sub>3</sub>-C<sub>8</sub>)-cycloalkyl, NH<sub>2</sub>, NH-(C<sub>1</sub>-C<sub>8</sub>)-alkyl, NH-(C<sub>3</sub>-C<sub>8</sub>)-cycloalkyl, N[(C<sub>1</sub>-C<sub>8</sub>)-alkyl]<sub>2</sub>, N[(C<sub>3</sub>-C<sub>8</sub>)-cycloalkyl]<sub>2</sub>, NH-CO-(C<sub>1</sub>-C<sub>8</sub>)-alkyl, NH-CO-(C<sub>3</sub>-C<sub>8</sub>)-cycloalkyl, SO<sub>3</sub>H; SO<sub>2</sub>-NH<sub>2</sub>, SO<sub>2</sub>-NH-(C<sub>1</sub>-C<sub>8</sub>)-alkyl, SO<sub>2</sub>-NH-(C<sub>3</sub>-C<sub>8</sub>)-cycloalkyl, NH-SO<sub>2</sub>-NH<sub>2</sub>; NH-SO<sub>2</sub>-(C<sub>1</sub>-C<sub>8</sub>)-alkyl, NH-SO<sub>2</sub>-(C<sub>3</sub>-C<sub>8</sub>)-cycloalkyl; O-CH<sub>2</sub>-COOH, O-CH<sub>2</sub>-CO-O(C<sub>1</sub>-C<sub>8</sub>)-alkyl, COOH, CO-O(C<sub>1</sub>-C<sub>8</sub>)-alkyl, CO-O-(C<sub>3</sub>-C<sub>8</sub>)-cycloalkyl, CO-NH<sub>2</sub>, CO-NH(C<sub>1</sub>-C<sub>8</sub>)-alkyl, CO-N[(C<sub>1</sub>-C<sub>8</sub>)-alkyl]<sub>2</sub>; (C<sub>1</sub>-C<sub>8</sub>)-alkyl, (C<sub>3</sub>-C<sub>8</sub>)-cycloalkyl, where in the alkyl groups in each case one to seven hydrogen atoms may be replaced by fluorine;

R6 (CH<sub>2</sub>)<sub>0-6</sub>-R9, (CH<sub>2</sub>)<sub>0-6</sub>-COOH, (CH<sub>2</sub>)<sub>0-6</sub>-COO-(C<sub>1</sub>-C<sub>6</sub>)-alkyl, C<sub>0-6</sub>-

$\text{CONH}_2$ ,  $(\text{CH}_2)_{0-6}-\text{CH}(\text{NHR15})-\text{COR16}$ , F, Cl, Br, CN,  $(\text{C}_1-\text{C}_{18})$ -alkyl,  $(\text{C}_3-\text{C}_4)$ -cycloalkyl,  $(\text{C}_6-\text{C}_8)$ -cycloalkyl, where in the alkyl radicals or cycloalkyl radicals up to seven hydrogen atoms may be replaced by fluorine;

R15 is H,  $\text{C}(\text{O})-(\text{C}_1-\text{C}_6)$ -alkyl;

R16 is OH,  $\text{O}-(\text{C}_1-\text{C}_6)$ -alkyl,  $\text{NH}_2$ ;

R7 is  $(\text{CH}_2)_{0-4}-\text{R12}$ , H,  $(\text{C}_1-\text{C}_{12})$ -alkyl,  $(\text{C}_3-\text{C}_4)$ -cycloalkyl,  $(\text{C}_6-\text{C}_8)$ -cycloalkyl,  $\text{COO}(\text{C}_1-\text{C}_6)$ -alkyl,  $\text{COO}(\text{C}_3-\text{C}_8)$ -cycloalkyl, where in the alkyl radicals or cycloalkyl radicals up to seven hydrogen atoms may be replaced by fluorine;

R8 is  $(\text{CH}_2)_{0-4}-\text{R14}$ ,  $(\text{C}_1-\text{C}_{12})$ -alkyl,  $(\text{C}_3-\text{C}_4)$ -cycloalkyl,  $(\text{C}_6-\text{C}_8)$ -cycloalkyl, where in the alkyl or cycloalkyl radicals up to seven hydrogen atoms may be replaced by fluorine atoms;

R9, R12, R14 independently of one another are

phenyl, 1- or 2-naphthyl, or biphenyl, where the rings or ring systems are in each case substituted up to three times by

F, Cl, Br, I, CN, OH,  $\text{O}(\text{C}_1-\text{C}_8)$ -alkyl,  $\text{O}(\text{C}_3-\text{C}_8)$ -cycloalkyl,  $\text{O}-\text{CO}-(\text{C}_1-\text{C}_8)$ -alkyl,  $\text{O}-\text{CO}-(\text{C}_3-\text{C}_8)$ -cycloalkyl,  $\text{S}(\text{O})_{0-2}(\text{C}_1-\text{C}_8)$ -alkyl,  $\text{S}(\text{O})_{0-2}(\text{C}_3-\text{C}_8)$ -cycloalkyl,  $\text{NH}_2$ ,  $\text{NH}-(\text{C}_1-\text{C}_8)$ -alkyl,  $\text{NH}-(\text{C}_3-\text{C}_8)$ -cycloalkyl,  $\text{N}[(\text{C}_1-\text{C}_8)-\text{alkyl}]_2$ ,  $\text{N}[(\text{C}_3-\text{C}_8)-\text{cycloalkyl}]_2$ ,  $\text{NH}-\text{CO}-(\text{C}_1-\text{C}_8)$ -alkyl,  $\text{NH}-\text{CO}-(\text{C}_3-\text{C}_8)$ -cycloalkyl,  $\text{SO}_3\text{H}$ ;  $\text{SO}_2-\text{NH}_2$ ,  $\text{SO}_2-\text{NH}-(\text{C}_1-\text{C}_8)$ -alkyl,  $\text{SO}_2-\text{NH}-(\text{C}_3-\text{C}_8)$ -cycloalkyl,  $\text{NH}-\text{SO}_2-\text{NH}_2$ ;  $\text{NH}-\text{SO}_2-(\text{C}_1-\text{C}_8)$ -alkyl,  $\text{NH}-\text{SO}_2-(\text{C}_3-\text{C}_8)$ -cycloalkyl;  $\text{O}-\text{CH}_2-\text{COOH}$ ,  $\text{O}-\text{CH}_2-\text{CO-O}(\text{C}_1-\text{C}_8)$ -alkyl, COOH,  $\text{CO-O}(\text{C}_1-\text{C}_8)$ -alkyl,  $\text{CO-O}-(\text{C}_3-\text{C}_8)$ -cycloalkyl,  $\text{CO-NH}_2$ ,  $\text{CO-NH}(\text{C}_1-\text{C}_8)$ -alkyl,  $\text{CO-N}[(\text{C}_1-\text{C}_8)-\text{alkyl}]_2$ ;

$(\text{C}_1-\text{C}_8)$ -alkyl,  $(\text{C}_3-\text{C}_8)$ -cycloalkyl, where in the alkyl groups in each case one to seven hydrogen atoms may be replaced by fluorine;

and its physiologically acceptable salts.

Claim 3 (canceled)

Claim 4. (original) A pharmaceutical composition comprising one or more compounds as claimed in claim 1 and a pharmaceutically acceptable carrier.

Claim 5. (original) The pharmaceutical composition according to claim 4, further comprising one or more active compounds for reducing weight in mammals.

Claim 6. (original) A method for reducing weight in mammals, comprising administering to said mammal a compound of formula I as claimed in claim 1.

Claim 7. (original) A method of treating obesity, comprising administering to a subject in need thereof, an effective amount of a compound of formula I as claimed in claim 1.

Claim 8. (original) The method of claim 7, further comprising administering one or more active compounds for reducing weight in mammals.

Claims 9-10. (canceled)

Claim 11. (original) A method of maintaining weight loss, comprising administering to a subject in need thereof, an effective amount of a compound of formula I as claimed in claim 1.

Claim 12. (original) The method of claim 11, further comprising administering one or more active compounds for reducing weight in mammals.